



БГЦА	ВУ/112 02.3.0.0055
BSCA	СТБ 941.3

VERIFICATION CERTIFICATE

№ MH0100388-4818

Verification date March 30, 2018
Valid till March 30, 2020

Measuring equipment Automatic Irradiation Calibration System

Type SIGMA

№ 1

Metrological characteristics:

Air kerma rate measurement range: from $1.7454 \cdot 10^{-11}$ Gy/s to $2.1268 \cdot 10^{-3}$ Gy/s;
Accuracy class (error): ± 4 %.

Owner Polimaster Ltd.

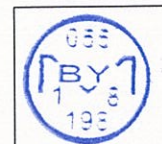
Verified according to GOST 8.087-2000

Standards used: standard of air kerma units and air kerma rate HЭ РБ 7-01

Verification results (if necessary): see appendix

According to results of verification the measuring instrument is recognized as valid and qualified for using

Verification mark impression



Verification officer _____

Zubarev V. N.

This certificate confirms the traceability of measurements performed by using this measuring equipment to the international system of units SI, which are reproduced by national standards.

Verification results

The System operating distances range is from 0.50 m to 6.00 m.

Metrological characteristics values according to GOST 8.087-2000 are given in table 1 and dated 30.03.2018 00 h 00 min:

Table 1

Source No.	Source type	Isotope	Air kerma rate at operating point K_{air} , Gy/s	Distance from source center to operating point R, m	Diameter \varnothing of beam at distance 100.0 cm from source center D, m
242/89/ИТ	ГCs7.029.1	^{137}Cs	$5,293 \cdot 10^{-4}$	1,00	0,22
136/88/ИТ	ГCs7.028.1	^{137}Cs	$4,268 \cdot 10^{-5}$	1,00	0,30
9ПУ	ГCs7.021.6	^{137}Cs	$1,858 \cdot 10^{-6}$	1,00	0,26
54Н	ГCs7.021.2	^{137}Cs	$8,772 \cdot 10^{-8}$	1,00	0,26
НКО	ГCs7.012.10	^{137}Cs	$2,411 \cdot 10^{-8}$	1,00	0,26
ХТ8	ГCs7.012.6	^{137}Cs	$2,636 \cdot 10^{-9}$	1,00	0,26
430	ИГИА-5	^{241}Am	$7,623 \cdot 10^{-8}$	2,00	0,26
430	ИГИА-5	$^{241}\text{Am}+f$	$2,047 \cdot 10^{-8}$	2,00	0,26
449	ГИК-2-9	^{60}Co	$6,508 \cdot 10^{-10}$	1,00	0,26
С93	ГИК-2-9	^{60}Co	$1,567 \cdot 10^{-8}$	1,00	0,26

The Automatic Irradiation Calibration System can be used as operating standard of the 2-d category according to GOST 8.087-2000.

Verification officer



Zubarev V. N.